

FIG. 1

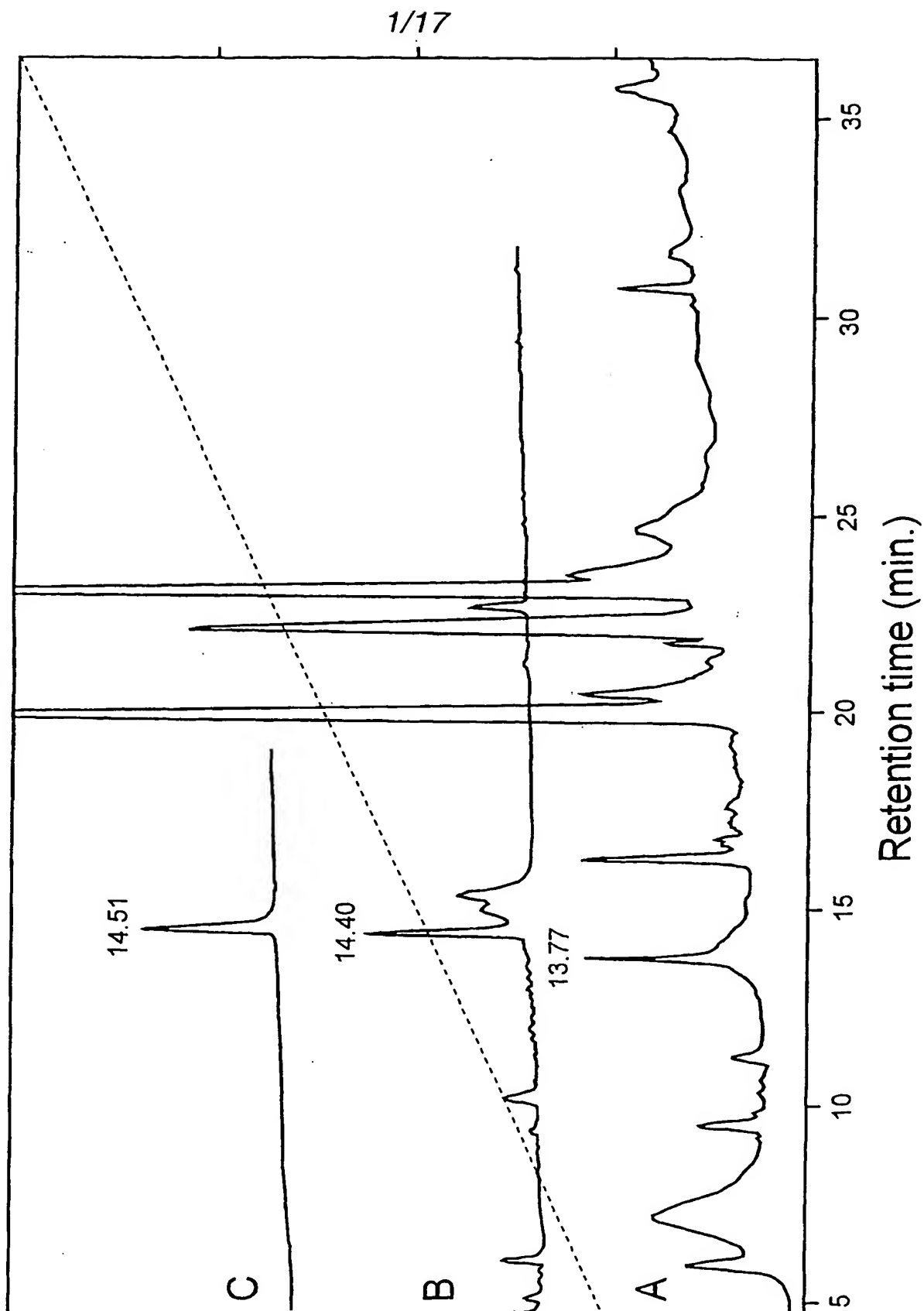
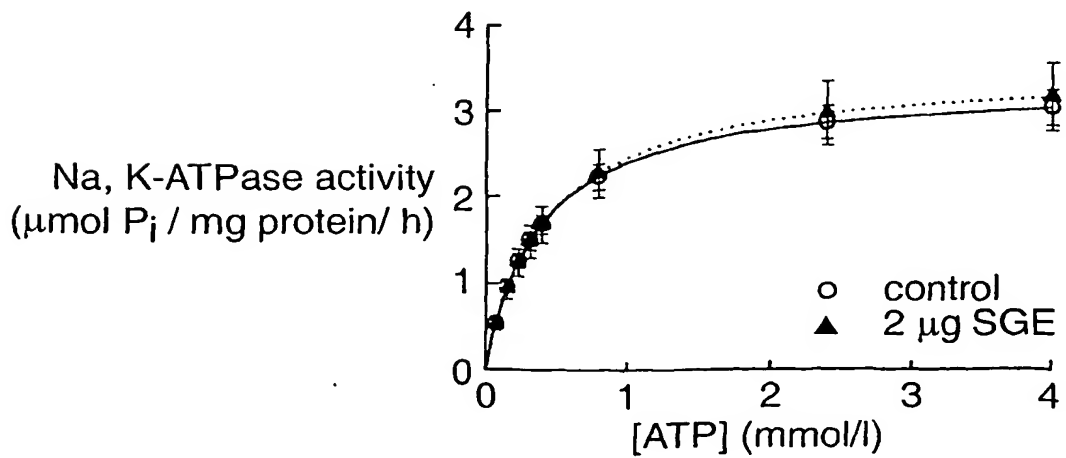
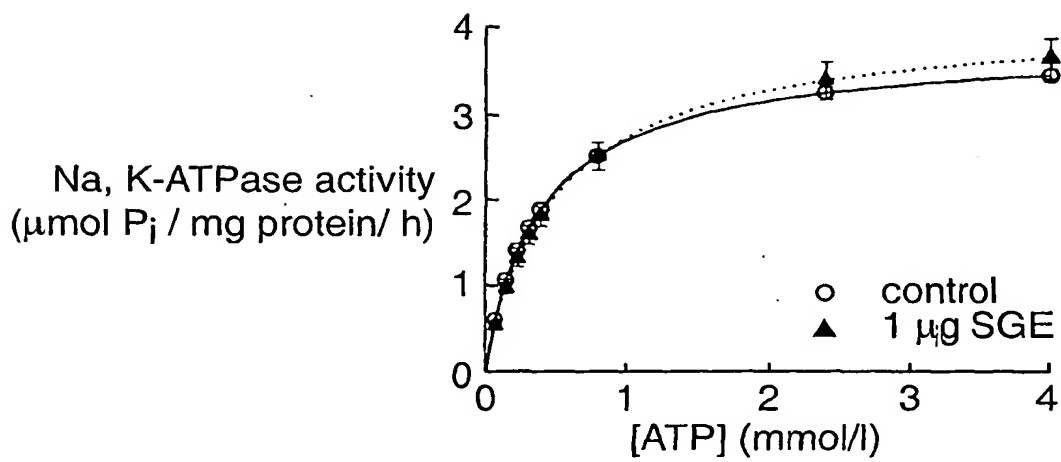
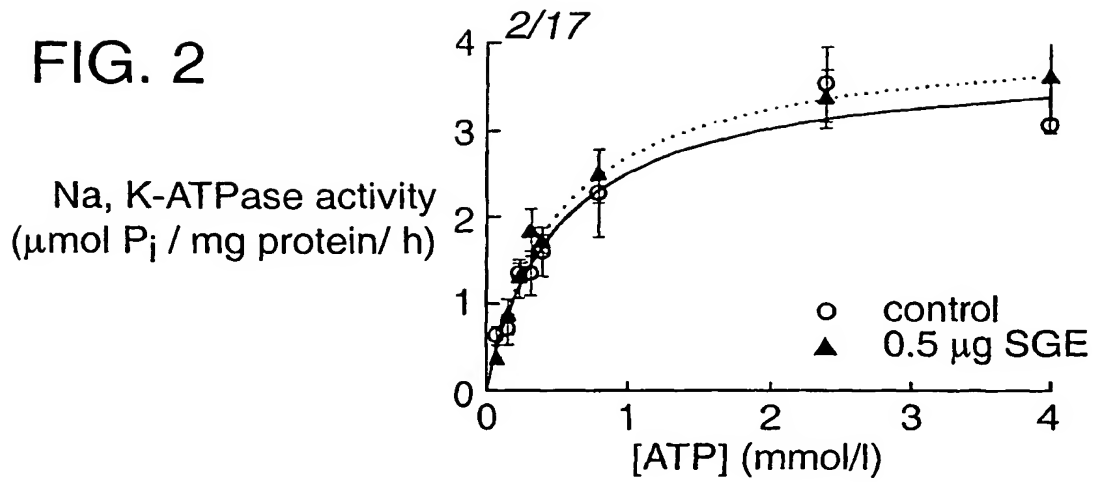


FIG. 2



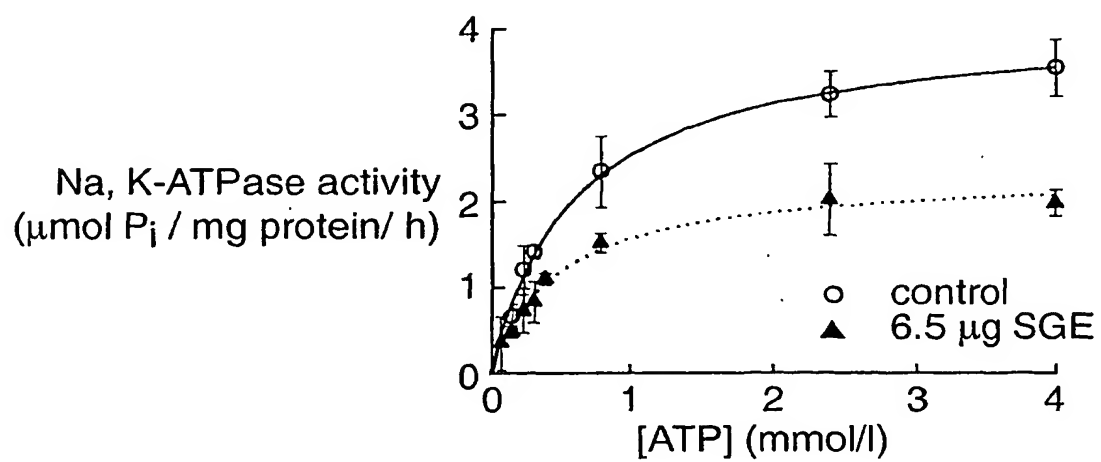
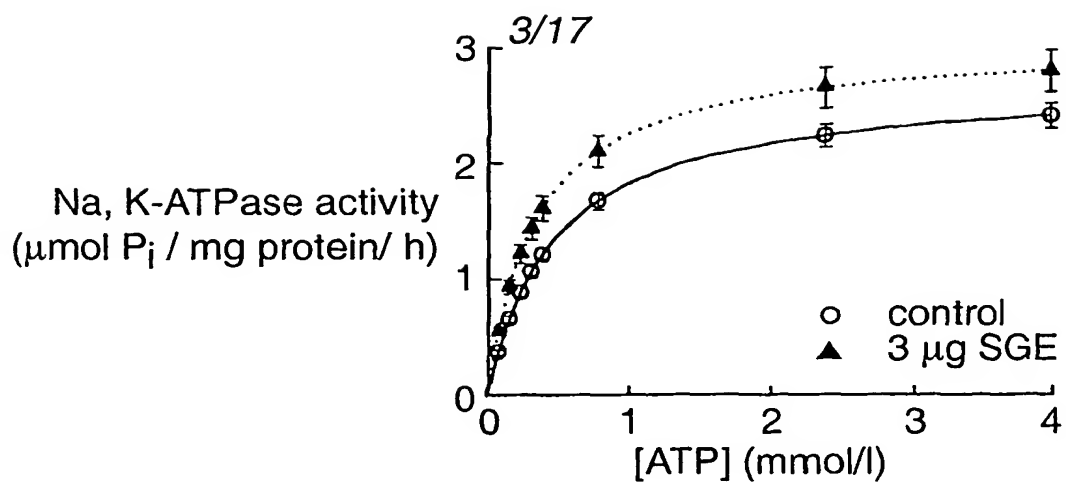


FIG. 2(contd.)

FIG. 3

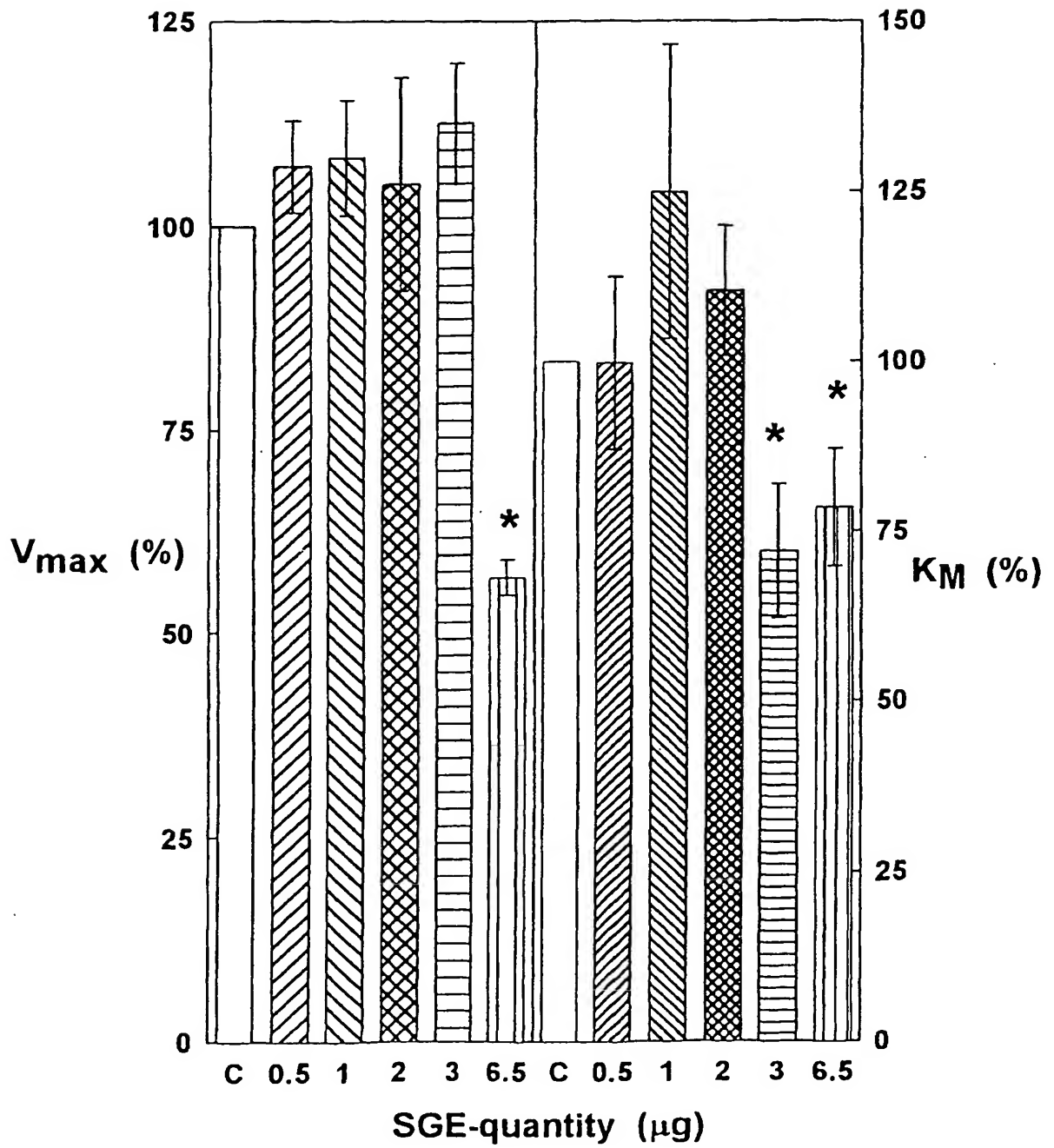


FIG. 4

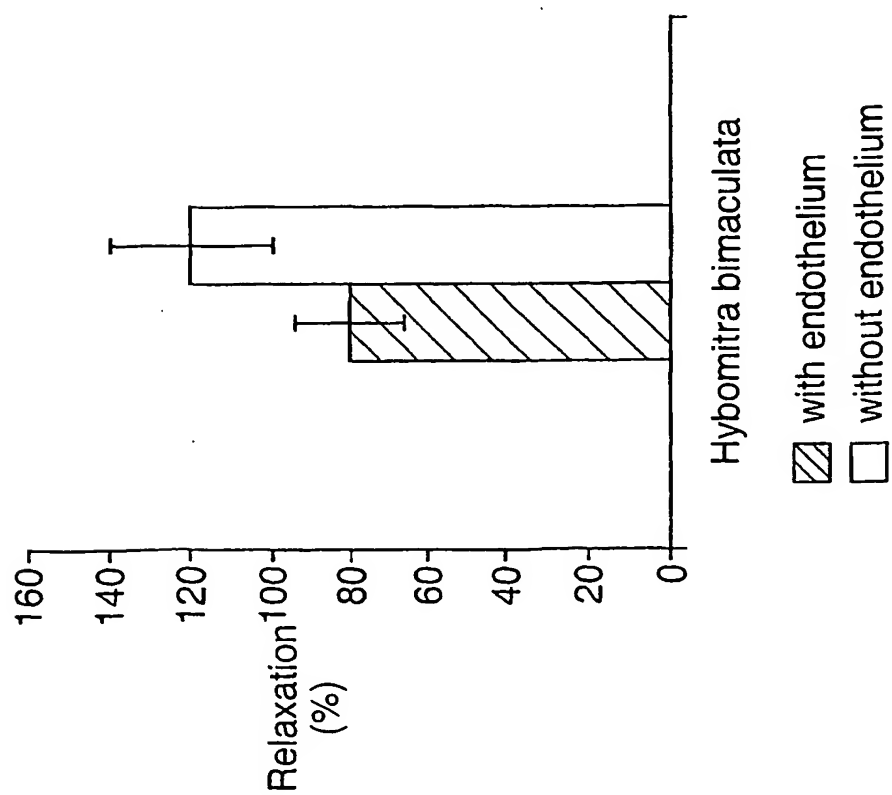


FIG. 5

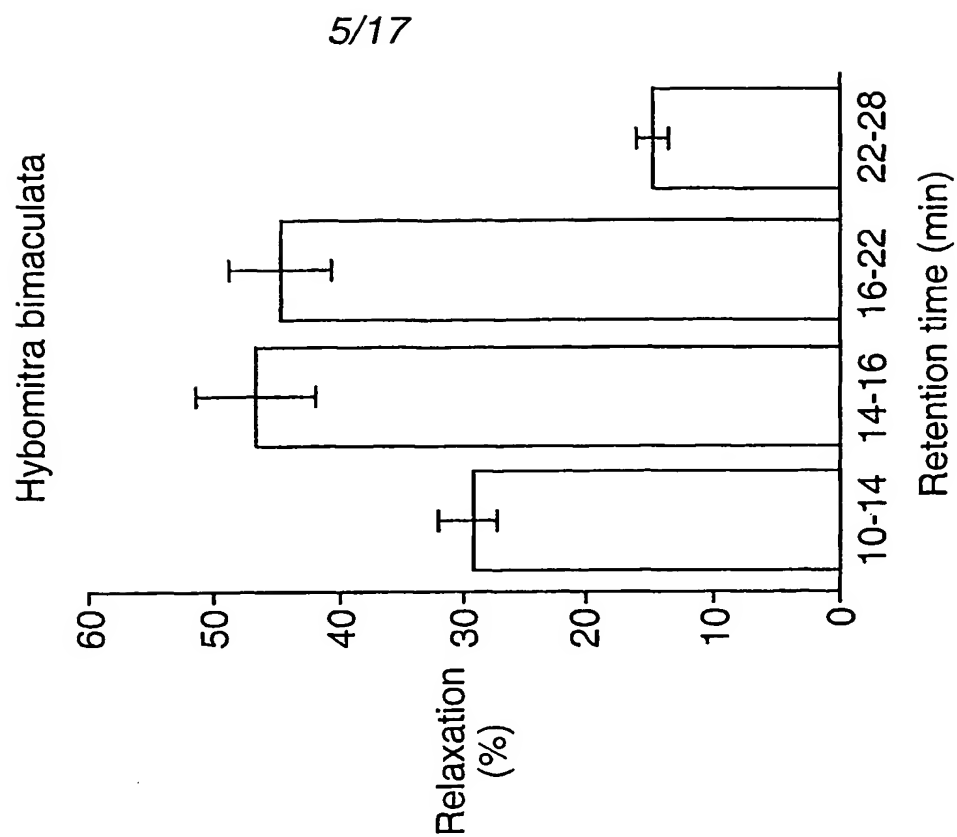


FIG. 6

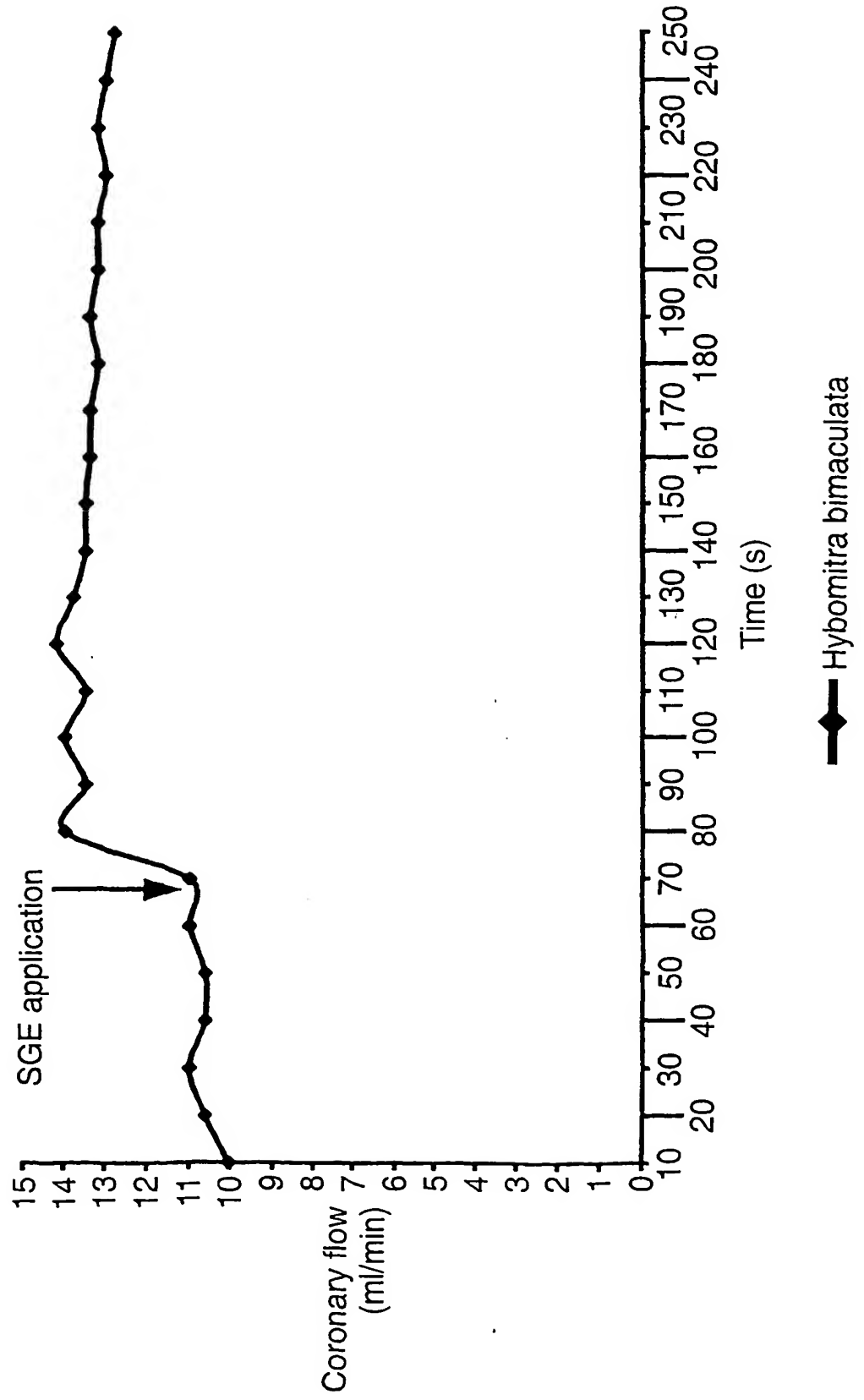


FIG. 7

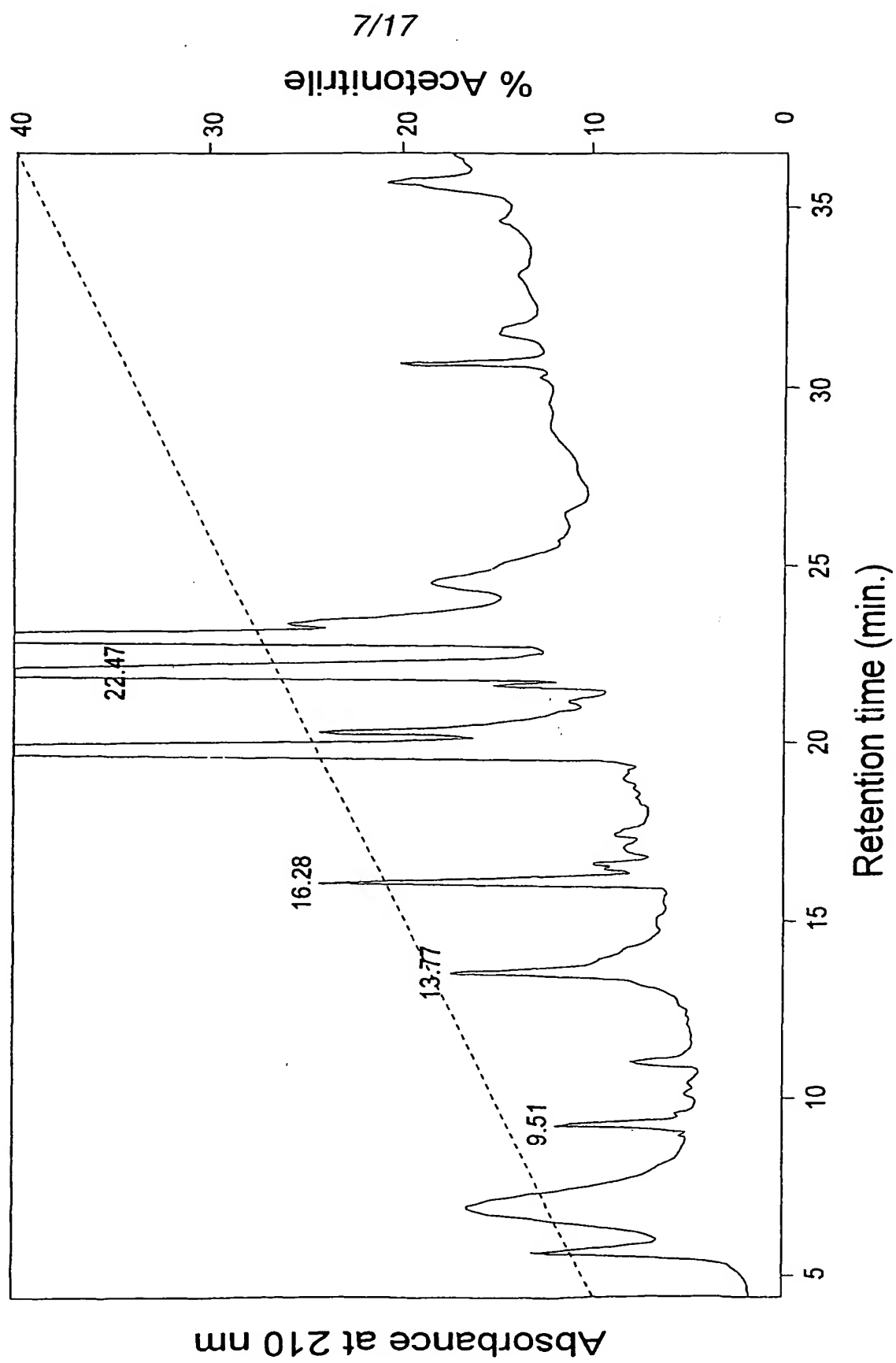


FIG. 8

1	5	10
Asp - Glu - Cys - Pro - Arg - Ile - Cys - Thr - Ala - Asp - Tyr - Arg - Pro - Val -		
15	20	25
Cys - Gly - Thr - Pro - Ser - Gly - Gly - Arg - Arg - Ser - Ala - Asn - (Arg) - Thr - Phe -		
30	35	40
Gly - Asn - Gln - Cys - (Ser) - (Leu) - (Asn) - (Ala) - (His) - (Asn) - (Cys) - (Leu) -		
	45	47
(Asn?) - (Lys?/Gly?) - (Lys?/Gly?) - (Asp?) - (Thr?) - (Tyr?) - ...		

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FIG. 9b

consensus	Csrypnp	tskDgklvaCpreydpVCGs.....DGvTYsNECeLkk	
	C+r	C+++y+PVCG	++T +N C+L++
14, 51min	3 CPRI	-----CTADYRPPVCGTpsggrirsANRTFGNQCSLNA	37
consensus	aaCaenveqgtniekkhdGpc		
	+ C	++g + k hdG+C	
14, 51min	38 HNC	---LNKGDITYDKLHDGEC	55

FIG. 10

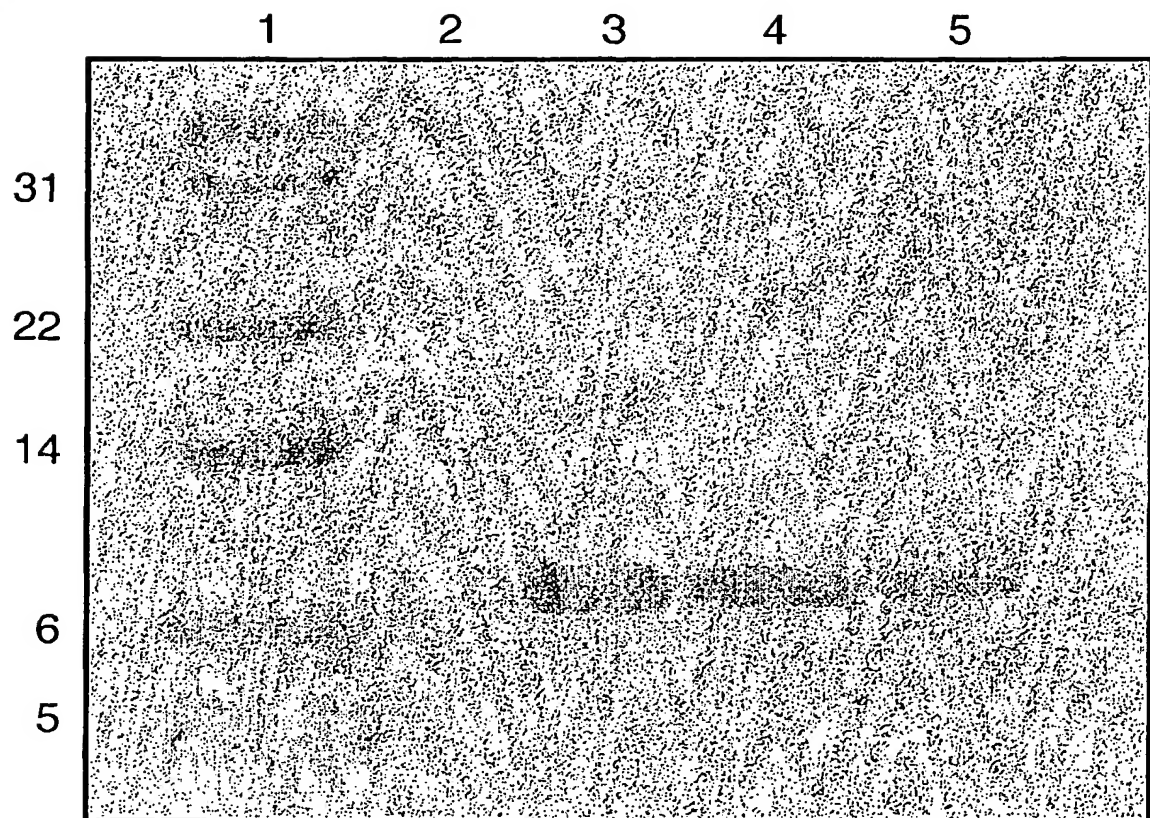
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	1	2	3	4	5	6
	C	C	#	C	C	C
Horse fly EV048	CPRI-----	CT...	ADYRPVCGTpsgrrs	ANRTFGNQCSLNAHNC---	L.NKGDYDKLHDGEC	
THBI_RHOPR/6-48	CA-----	CP...	HALHRVCGS.....	DGETYSNPCTLN---	CAKE-.GKPEL-VKVHDGPC	
THBI_RHOPR/57-101	CQE-----	CD...	gDEYKPVCGS.....	DDITYDNNCRLE---	CASIS.SSPGV-ELKHGPGC	
IELA_ANESU/4-48	CPLI-----	CT...	MQYDPVCGS.....	DGITYGNACMLLGASCRS	DTPIE--LVHKGRC	
AGRI_CHICK/81-126	CKKTA-----	CP...	VVAVPVCGS.....	DYSTYSNECELEKAQC----	NQQRRIKVISKGPC	
IAC2_HUMAN/36-84	CSQYRLPG-----	CP...	RHENPVCGS.....	DMSTYANECTL----	CMKIR.EGGHNIKIIRNGPC	
AGRI_CHICK/588-633	CDFT-----	CL...	aVPRSPVCGS.....	DDVTYANECELKKTRC----	EKRQNLVYTSQGAC	
AGRI_RAT/600-645	CDFS-----	CQ...	sVPRSPVCGS.....	DGVTYGTEDLKKARC----	ESQOELYVAAQGAC	
FSA_HUMAN/118-164	CAPD-----	Cs...	iTWKGPVCGL.....	DGKTYRNECALLKARC----	KEQPELEVQYQGRC	
AGRI_CHICK/156-201	CPAS-----	CS...	gVAESIVCGS.....	DGKDYRSECDLNKHAC----	DKQENVFKKFDGAC	
AGRI_RAT/167-212	CPTT-----	CF...	gAPDGTVCGS.....	DGVDPSECQLLHSHAC----	ASQEHIFKKFNGPC	
AGRI_CHICK/374-418	CQOV-----	CQ...	GRYDPVCGS.....	DNRTYGNPCELNAMAC----	VLKREIRVKHKGPC	
AGRI_RAT/385-429	CQRV-----	CS...	GIYDPVCGS.....	DGVTYGSVCELESMAAC----	TLGREIQVARRGPC	
PE60_PIG/37-86	CEHMTESPD-----	CS...	RIYDPVCGT.....	DGVTYESECKL----	CLARI.ENKQDIQIVKDGEC	
IPSI_RAT/32-79	CPKQIMG-----	CP...	RIYDPVCGT.....	NGITYPSECSL----	CFENR.KFGTSHIQRRTGC	
IPSI_RAT/32-79	CPNTLVG-----	CP...	RDYDPVCGT.....	DGKTYANECIL----	CFENR.KFGTSIRIQRRLC	
IPST_BOVIN/9-56	CTNEVNG-----	CP...	RIYNPVCGT.....	DGVTYSNECLL----	CMENK.ERQTPVLQKSGPC	
IPST_CANFA/10-57	CNLKVNG-----	CN...	KIYNPICGS.....	DGITYANECIL----	CLENK.KRQTSILVEKSGPC	
AGRI_CHICK/439-483	CPTE-----	CV...	PSSQPVCGT.....	DGNTYGSECELHVHAC----	TQQKNILVAAQGDG	
AGRI_RAT/450-494	CPSE-----	CV...	ESAQPVCGS.....	DGHTYASECELHVHAC----	THQISLYVASAGHC	
AGRI_CHICK/504-548	CPR-----	CE...	qQLAQVCGT.....	DGLTYDNRCELRAASC----	QQQKSIEVAKMGPC	
AGRI_RAT/515-559	CPR-----	CE...	hPPGPVCGS.....	DGVTYLSACELREAAC----	QQQVQIEEAHAGPC	
AGRI_CHICK/805-851	CPSP-----	CS...	eANMTKVCGS.....	DGVTYGDQCQLKTIAC----	RQGLITVVKHVGQC	
AGRI_RAT/818-864	CPTLT-----	CP...	eANSTKVCGS.....	DGVTYGNECQLKAJAC----	RQRLDISTQSLGPC	
IOV7_CHICK/28-85	CSLYASGIGKDGtsWVACP...	RNLKPVCGT.....	DGSTYSNECGI----	CLYNR.EHGANEVEKYDGEC		
IOV7_CHICK/94-150	CSPYLQV-VRDGNtMVACP...	RILKPVCGS.....	DSFTYDNECGI----	CAYNA.EHHTNISKLHDGEC		
IOV7_CHICK/159-216	CSKYPSTVSKDGRtLVACP...	RILSPVCGT.....	DGFTYDNECGI----	CAHNA.EQRTHSVSKKHGKC		
IOV7_CHICK/225-282	CDQYPTRKTGGKILVRCP...	RILLPVCGT.....	DGFTYDNECGI----	CAHNA.QHGTEVKKSHDGR		
IOVO_CHICK/29-86	CSRFPNATDKEGKdVLVCN...	KDLRPICGT.....	DGVTYTNDCLL----	CAYSI.EFGTNISKEHDGEC		
IOVO_COTJA/5-62	CSRFPNTTNEEGKdEVVCP...	DELRICGT.....	DGVTYNHECML----	CFYNK.EYGTNISKEQDGEC		
IOVO_CHICK/94-151	CSSYANTTSEDGKvMVLN...	RAENPVCGT.....	DGVTYDNECLL----	CAHKV.EQGASVDKRHDGEC		
IOVO_COTJA/70-127	CSRYPNTTSEDGKvTILCT...	KDFSFCVCGT.....	DGVTYDNECML----	CAHNV.VQGTSGVKKHDGEC		
IOV7_CHICK/356-413	CSKYKTSTLKDRqVVACT...	MIYDPVCGT.....	NGVTYASECTL----	CAHNL.EQRTNLGKRKNGR		
IPST_ANGAN/12-61	CGEMSAMHA-----	CP...	MNFAPVCGT.....	DGNTYPNECSL----	CFQRQ.NTKTDILITKDDRC	
AGRI_CHICK/299-344	CDRIT-----	CD...	GTYPVCGT.....	DSRTYSNDCERQKAEC----	HQKAAIPVKHSGPC	
AGRI_RAT/311-356	CDRV-----	CD...	GSYPVCAQ.....	DGHTYNNDCWRQQAEC----	RQRAIPVKHSGPC	
FSA_HUMAN/270-316	CDEL-----	Cpd...	sKSDPVCAS.....	DNATYASECAMKEAAC----	SSGVLEVVKHSGSC	
IPSG_CANFA/12-64	CSNYKGKGS----	QIACP...	RLHQPICGT.....	DHKTYSNECMF----	CALTL.NKKFEVRKLQDTAC	
IPSG_MELME/16-68	CSKYNAGKS----	QFACS...	RHLDPVCGT.....	DHRTYSNECMF----	CMLTQ.NKRFVSRIQLDNNC	
IPSG_FELCA/8-60	CSQYNRKG----	GITCS...	KWKPICGI.....	DHKTYSNECMF----	CQLNQ.NKRFQLRKLHDNKC	
IAC1_BOVIN/14-61	CKVYTEA-----	CT...	REYNPICDS.....	AAKTYSNECTF----	CNEKM.NNDADIHFNFHFGEC	
IACA_PIG/7-57	CNVYRSH-----	LFCT...	RQMDPICGT.....	NGKSYANPCIF----	CSEKG.LRNQKFDGHWGHC	
IAC2_BOVIN/7-57	CAEFKDP-----	KVYCT...	RESNPHCGS.....	NGETYGNKCAF----	CKAVM.KSGGKINLKHGRKC	
IOV7_CHICK/422-472	CREFQKV-----	SPICT...	MEYVPHCGS.....	DGVTYSNRCFF----	CNAVY.QSNRTLNLVSM AAC	
IOVO_ABUPI/8-56	CSDHPKP-----	ACL...	QEQLPCGS.....	DNKTYDNKCSF----	CNAVY.DSNGTLTSLHFGKC	
IOVO_FRACO/5-53	CSEYPPKPG-----	CT...	MEYRPVCGS.....	DNITYGNKCNF----	CNAVY.KSNGTLTSLHFGKC	
IOVO_CASCA/6-54	CSEYPPKPG-----	VCS...	PEYMLPGS.....	DSKTYNNKCDF----	CSAVV.ESNGTLTSLHFGKC	
IOVO_EUDEL/5-51	CSGYPKP-----	ACT...	LEFFPLCGS.....	DNQTYSNKCAF----	C-NA.AVEKNVTLNHIGEC	
IPSG_CANFA/68-115	CTEYSDM-----	CT...	MDYRPLCGS.....	DGKNYSNKCFS----	CNAVY.KSRGTIFLAKHGEC	
IPSG_FELCA/64-111	CTNYSA-----	ICT...	MEYFPLCGS.....	DGQEYSNKCFL----	CNEVV.KRRGTIFLAKYGQC	
AGRI_CHICK/227-273	LSRPEN-----	CP...	SKREPVCGD.....	DGVTYASECVMGRTGA----	IRGLEIQKVRSGQC	
AGRI_RAT/237-284	MLLRPEN-----	CP...	AQHTPICGD.....	DGVTYENDCVMSRIGA----	TRGLLLQKVRSGQC	
FSA_HUMAN/192-239	CNRI-----	CPe...	pasSEQYLCGN.....	DGVTYSSACHLRKATC----	LLGRSIGLAYEGKC	
QR1_COTJA/468-521	CQDPAA-----	CPs...	tKDYKRVCGT.....	DNKTYDGTQCLFGTKCQLEGTKMGRQLHLDYMGAC		
SCI_RAT/426-479	CQDPET-----	CPp...	aKILDQACGT.....	DNQTYASSCHLFATKCMLEGTGGHQLQLDYFGAC		
SPRC_BOVIN/95-149	CQDPTS-----	CPa...	igEFEKVCN.....	DNKTFDSSCHFFATKCTLEGTKGGHKLHLDYIGPC		

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FIG. 11



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FIG. 12A

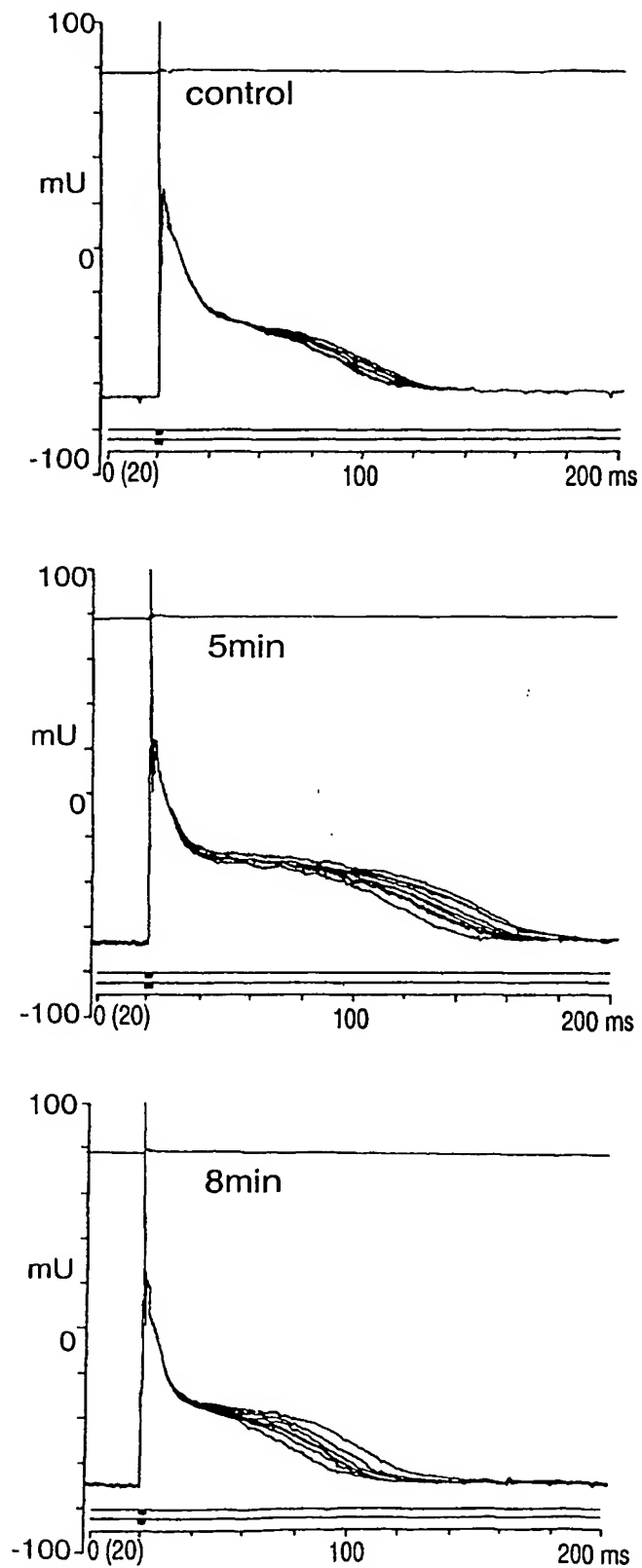


FIG. 12B

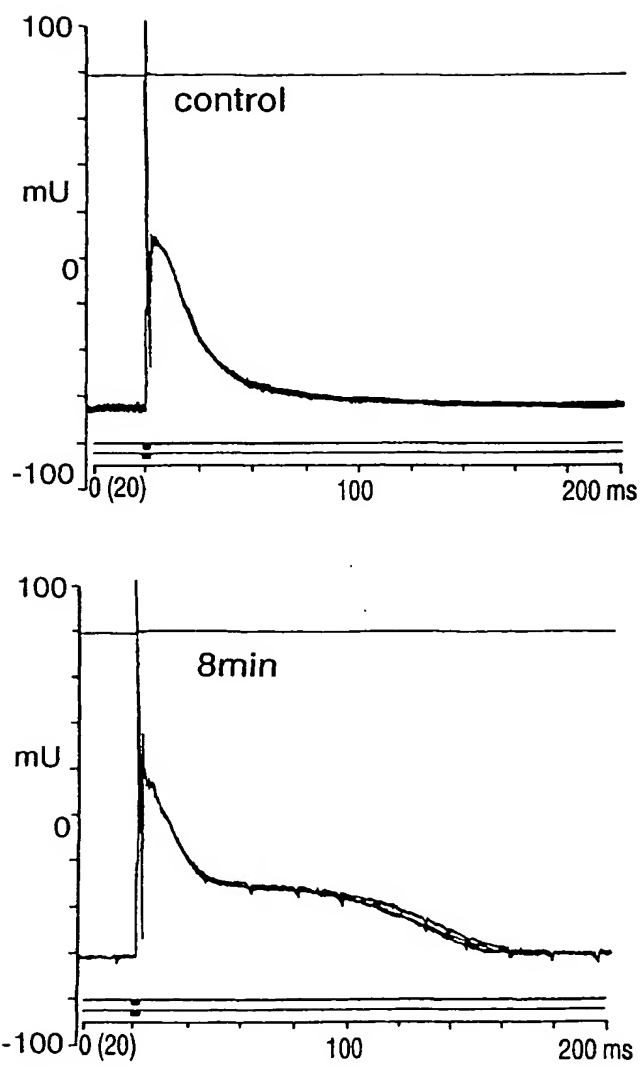
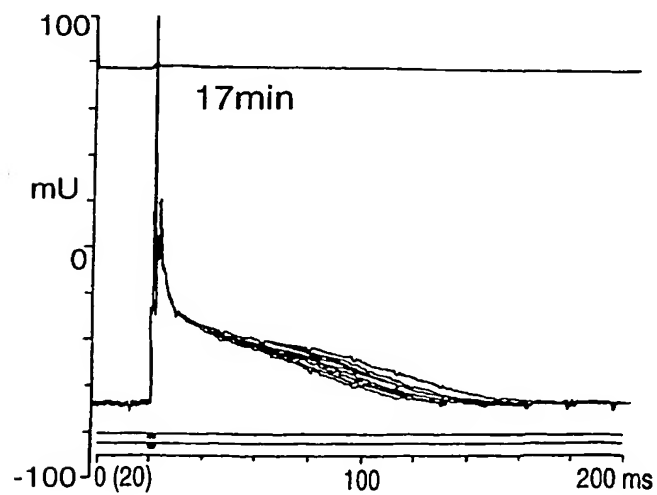
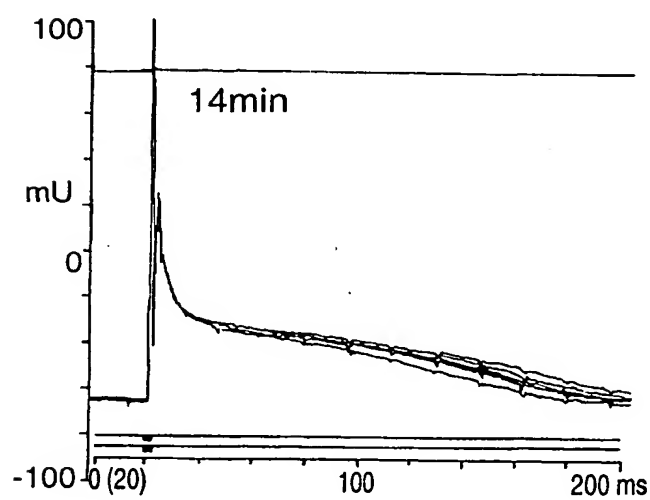
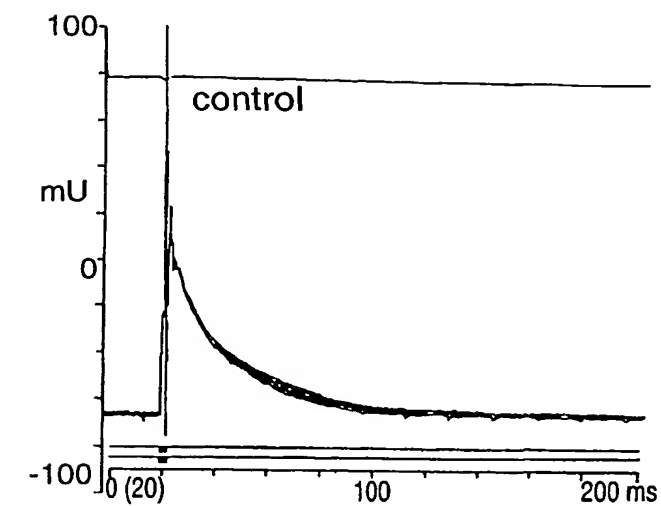


FIG. 12C

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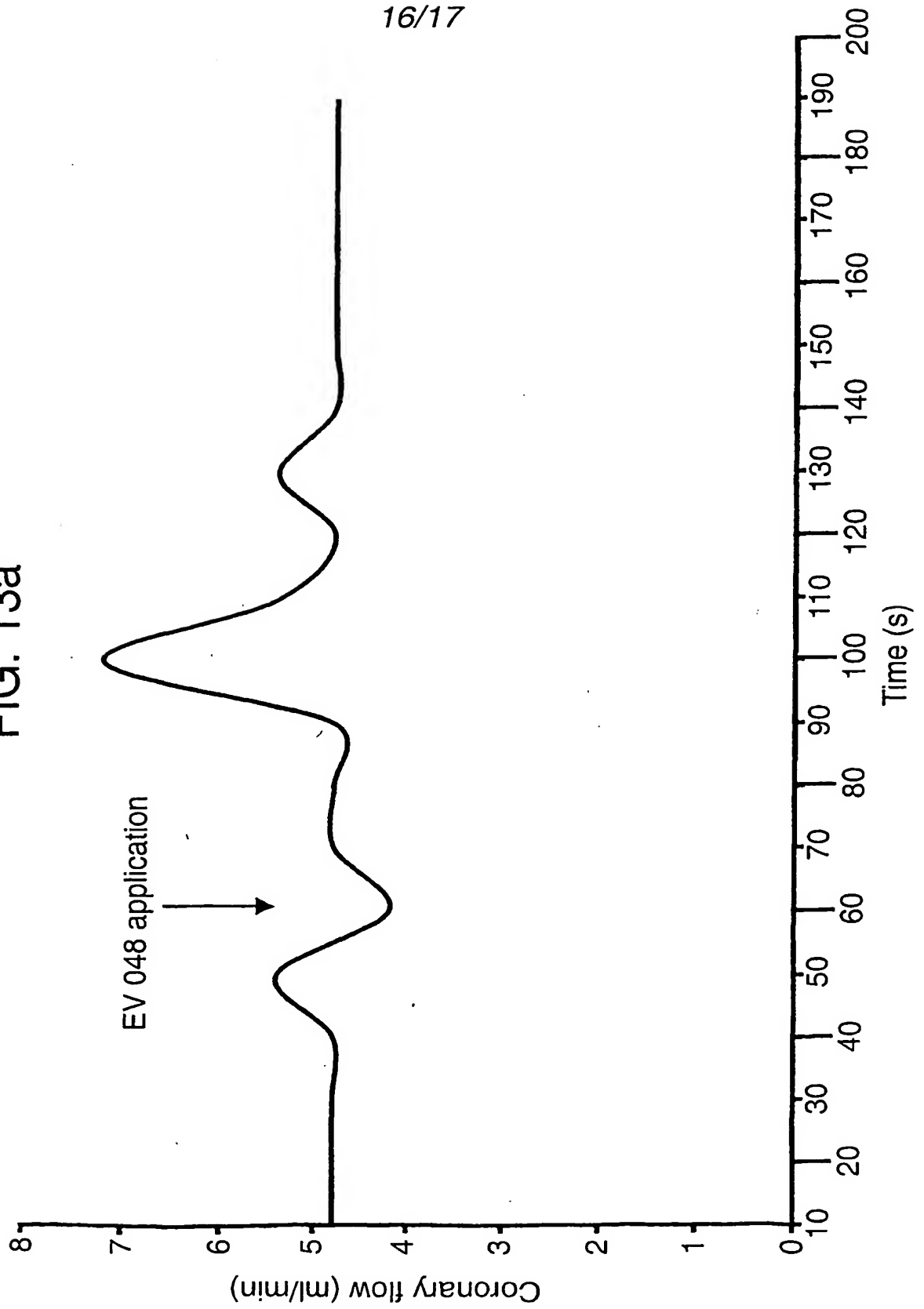


FIG. 13b

